



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,815A

DATE: 12/11/2002

TIME: 14:19:09

Input Set : A:\SEQ01044rev2.txt

Output Set: N:\CRF4\12112002\I857815A.raw

3 <110> APPLICANT: Takeda Chemical Industries, Ltd.  
 5 <120> TITLE OF INVENTION: Betacellulin Mutein  
 7 <130> FILE REFERENCE: P2001-232  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/857,815A  
 C--> 9 <141> CURRENT FILING DATE: 2001-06-08  
 9 <150> PRIOR APPLICATION NUMBER: JP 10-350377  
 10 <151> PRIOR FILING DATE: 1998-12-09  
 12 <150> PRIOR APPLICATION NUMBER: JP 11-55326  
 13 <151> PRIOR FILING DATE: 1999-03-03  
 15 <160> NUMBER OF SEQ ID NOS: 56  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 77  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Human  
 22 <400> SEQUENCE: 1  
 23 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly  
 24 1 5 10 15  
 25 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Gln Ser Lys Arg Lys  
 26 20 25 30  
 27 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys  
 28 35 40 45  
 29 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys  
 30 50 55 60  
 31 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp  
 32 65 70 75  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 76  
 36 <212> TYPE: PRT  
 37 <213> ORGANISM: Human  
 39 <400> SEQUENCE: 2  
 40 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly  
 41 1 5 10 15  
 42 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys  
 43 20 25 30  
 44 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys  
 45 35 40 45  
 46 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys  
 47 50 55 60  
 48 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val  
 49 65 70 75  
 51 <210> SEQ ID NO: 3  
 52 <211> LENGTH: 47  
 53 <212> TYPE: PRT

Does Not Comply  
 Corrected Diskette Needed  
 see p. 2

insert this mandatory numeric identifier  
and response

<210> 37  
<211> 75  
<213> Human

><2127 PRT

invalid

<400> 37

Gly Asn Ser Thr Arg Ser Pto Glu Thr Asn Gly Leu Leu Cys Gly Asp  
1 5 10 15  
Pro Glu Glu Asn Cys Ala Ala Thr Thr Gln Ser Lys Arg Lys Gly  
20 25 30  
His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys Gly  
35 40 45  
Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys Asp  
50 55 60  
Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val  
65 70 75

<210> 38

<211> 53

<213> Human

><2127 PRT

same error

<400> 38

Ala Thr Thr Thr Gln Ser Lys Arg Lys Gly His Phe Ser Arg Cys Pro  
1 5 10 15  
Lys Gln Tyr Lys His Tyr Cys Ile Lys Gly Arg Cys Arg Phe Val Val  
20 25 30  
Ala Glu Gln Thr Pro Ser Cys Val Cys Asp Glu Gly Tyr Ile Gly Ala  
35 40 45  
Arg Cys Glu Arg Val  
50 53